

Laboratory Results

Lee County Environmental Laboratory

60-2 Danley Drive
Fort Myers, FL 33907
239-533-8600



To: Natural Resources Management
1500 Monroe St
Fort Myers FL 33901
RE: Tidal Caloosa

Report Date: 9/23/2020

Below are the results of samples submitted to this laboratory on 9/16/2020

Laboratory ID	AE60597	Collection date and time	9/16/2020 10:35 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/WOLFE
Sample Description	Grid #417		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	0.88	I	mg/M3	0.5	2.0	9/17/2020	7:36 AM	SM21 10200 H
Pheophytin	1.53	I	mg/M3	0.5	2.0	9/17/2020	7:36 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.8	V1 I J3	mg/L	0.3	1.2	9/17/2020	11:18 AM	SM 5210 B
Color	175		CU	8.0	32.0	9/17/2020	1:33 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	6.37		mg/L			9/16/2020	10:35 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		9/16/2020	3:14 PM	Enterolert®
E.coli Enumeration	20		MPN/100mL	10		9/16/2020	3:23 PM	Colilert-18®
Ammonia	0.086		mg/L as N	0.014	0.056	9/17/2020	10:53 AM	EPA 350.1
Nitrite	0.017		mg/L as N	0.003	0.012	9/17/2020	8:35 AM	EPA 353.2
Nitrate	0.378		mg/L as N	0.01	0.04	9/17/2020	8:35 AM	EPA 353.2
Nitrate + Nitrite	0.395		mg/L as N	0.01	0.04	9/17/2020	8:35 AM	EPA 353.2
Nitrogen, Organic	0.77		mg/L as N	0.05	0.2	9/21/2020	8:53 AM	TKN - NH3
Phosphorus, Ortho	0.142		mg/L as P	0.004	0.016	9/17/2020	1:06 PM	EPA 365.1
Salinity by meter by Client	1.54		SU			9/16/2020	10:35 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.55		meters			9/16/2020	10:35 AM	FDEP FT 1700
Silica, dissolved as SiO2	12		mg/L as SiO2	0.1	0.4	9/17/2020	12:55 PM	SM4500-SiO2 C
Depth of Water Body	1.5		Meters			9/16/2020	10:35 AM	FS2100
Nitrogen, Kjeldahl, Total	0.86		mg/L as N	0.05	0.2	9/21/2020	8:53 AM	EPA 351.2
Nitrogen, Total	1.3		mg/L as N	0.05	0.2	9/21/2020	8:53 AM	TKN + NOX
Total Organic Carbon	17		mg/L	1	4	9/17/2020	12:47 PM	SM 5310 B
Phosphorus, Total	0.17		mg/L as P	0.006	0.024	9/21/2020	8:54 AM	EPA 365.1

Report Format: NELAC

DOH #E45049



Laboratory ID	AE60597	Collection date and time	9/16/2020 10:35 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/WOLFE
Sample Description	Grid #417		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Total Suspended Solids	2.20	I	mg/L	0.6	2.4	9/17/2020	9:02 AM	SM 2540 D
Turbidity (Nephelometric)	2.34		NTU	0.2	0.8	9/17/2020	3:25 PM	EPA 180.1

Laboratory ID	AE60598	Collection date and time	9/16/2020 12:30 PM
Location Code	CRNEP_RS	Sample Collector	REISTADT/WOLFE
Sample Description	Grid #449		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	1.21	I	mg/M3	0.5	2.0	9/17/2020	7:36 AM	SM21 10200 H
Pheophytin	0.77	I	mg/M3	0.5	2.0	9/17/2020	7:36 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	1.0	V1 I J3	mg/L	0.3	1.2	9/17/2020	11:18 AM	SM 5210 B
Color	155		CU	8.0	32.0	9/17/2020	1:33 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	4.70		mg/L			9/16/2020	12:30 PM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		9/16/2020	3:14 PM	Enterolert®
E.coli Enumeration	99		MPN/100mL	10		9/16/2020	3:23 PM	Colilert-18®
Ammonia	0.048	I	mg/L as N	0.014	0.056	9/17/2020	10:53 AM	EPA 350.1
Nitrite	0.023		mg/L as N	0.003	0.012	9/17/2020	8:35 AM	EPA 353.2
Nitrate	0.420		mg/L as N	0.01	0.04	9/17/2020	8:35 AM	EPA 353.2
Nitrate + Nitrite	0.443		mg/L as N	0.01	0.04	9/17/2020	8:35 AM	EPA 353.2
Nitrogen, Organic	0.95		mg/L as N	0.05	0.2	9/21/2020	8:53 AM	TKN - NH3
Phosphorus, Ortho	0.129		mg/L as P	0.004	0.016	9/17/2020	1:06 PM	EPA 365.1
Salinity by meter by Client	0.23		SU			9/16/2020	12:30 PM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.85		meters			9/16/2020	12:30 PM	FDEP FT 1700
Silica, dissolved as SiO2	11		mg/L as SiO2	0.1	0.4	9/17/2020	12:55 PM	SM4500-SiO2 C
Depth of Water Body	2.3		Meters			9/16/2020	12:30 PM	FS2100
Nitrogen, Kjeldahl, Total	1.0		mg/L as N	0.05	0.2	9/21/2020	8:53 AM	EPA 351.2
Nitrogen, Total	1.4		mg/L as N	0.05	0.2	9/21/2020	8:53 AM	TKN + NOX
Total Organic Carbon	18		mg/L	1	4	9/17/2020	12:47 PM	SM 5310 B
Phosphorus, Total	0.16		mg/L as P	0.006	0.024	9/21/2020	8:54 AM	EPA 365.1
Total Suspended Solids	1.25	I	mg/L	0.6	2.4	9/17/2020	9:02 AM	SM 2540 D
Turbidity (Nephelometric)	2.19		NTU	0.2	0.8	9/17/2020	3:25 PM	EPA 180.1



Laboratory ID	AE60599	Collection date and time	9/16/2020 11:10 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/WOLFE
Sample Description	Grid #423		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	1.34	I	mg/M3	0.5	2.0	9/17/2020	7:36 AM	SM21 10200 H
Pheophytin	1.95	I	mg/M3	0.5	2.0	9/17/2020	7:36 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	1.0	V1 I J3	mg/L	0.3	1.2	9/17/2020	11:18 AM	SM 5210 B
Color	155		CU	8.0	32.0	9/17/2020	1:33 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	5.27		mg/L			9/16/2020	11:10 AM	FDEP FT1500
Enterococci	20		MPN/100mL	10		9/16/2020	3:14 PM	Enterolert®
E.coli Enumeration	99		MPN/100mL	10		9/16/2020	3:23 PM	Colilert-18®
Ammonia	0.134		mg/L as N	0.014	0.056	9/17/2020	10:53 AM	EPA 350.1
Nitrite	0.018		mg/L as N	0.003	0.012	9/17/2020	8:35 AM	EPA 353.2
Nitrate	0.327		mg/L as N	0.01	0.04	9/17/2020	8:35 AM	EPA 353.2
Nitrate + Nitrite	0.345		mg/L as N	0.01	0.04	9/17/2020	8:35 AM	EPA 353.2
Nitrogen, Organic	0.72		mg/L as N	0.05	0.2	9/21/2020	8:53 AM	TKN - NH3
Phosphorus, Ortho	0.142		mg/L as P	0.004	0.016	9/17/2020	1:06 PM	EPA 365.1
Salinity by meter by Client	1.47		SU			9/16/2020	11:10 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.65		meters			9/16/2020	11:10 AM	FDEP FT 1700
Silica, dissolved as SiO2	12		mg/L as SiO2	0.1	0.4	9/17/2020	12:55 PM	SM4500-SiO2 C
Depth of Water Body	1.3		Meters			9/16/2020	11:10 AM	FS2100
Nitrogen, Kjeldahl, Total	0.85		mg/L as N	0.05	0.2	9/21/2020	8:53 AM	EPA 351.2
Nitrogen, Total	1.2		mg/L as N	0.05	0.2	9/21/2020	8:53 AM	TKN + NOX
Total Organic Carbon	16		mg/L	1	4	9/17/2020	12:47 PM	SM 5310 B
Phosphorus, Total	0.17		mg/L as P	0.006	0.024	9/21/2020	8:54 AM	EPA 365.1
Total Suspended Solids	2.10	I	mg/L	0.6	2.4	9/17/2020	9:02 AM	SM 2540 D
Turbidity (Nephelometric)	2.09		NTU	0.2	0.8	9/17/2020	3:25 PM	EPA 180.1

Laboratory ID	AE60600	Collection date and time	9/16/2020 9:55 AM
Location Code	CRNEP_RS	Sample Collector	REISTADT/WOLFE
Sample Description	Grid #395		

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	1.79	I	mg/M3	0.5	2.0	9/17/2020	7:36 AM	SM21 10200 H
Pheophytin	1.04	I	mg/M3	0.5	2.0	9/17/2020	7:36 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.8	V1 I J3	mg/L	0.3	1.2	9/17/2020	11:18 AM	SM 5210 B
Color	147		CU	8.0	32.0	9/17/2020	1:33 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	5.41		mg/L			9/16/2020	9:55 AM	FDEP FT1500

Report Format: NELAC

DOH #E45049



Laboratory ID AE60600
 Location Code CRNEP_RS
 Sample Description Grid #395

Collection date and time 9/16/2020 9:55 AM
 Sample Collector REISTADT/WOLFE

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Enterococci	10	U	MPN/100mL	10		9/16/2020	3:14 PM	Enterolert®
E.coli Enumeration	31		MPN/100mL	10		9/16/2020	3:23 PM	Colilert-18®
Ammonia	0.089		mg/L as N	0.014	0.056	9/17/2020	10:53 AM	EPA 350.1
Nitrite	0.016		mg/L as N	0.003	0.012	9/17/2020	8:35 AM	EPA 353.2
Nitrate	0.360		mg/L as N	0.01	0.04	9/17/2020	8:35 AM	EPA 353.2
Nitrate + Nitrite	0.376		mg/L as N	0.01	0.04	9/17/2020	8:35 AM	EPA 353.2
Nitrogen, Organic	0.76		mg/L as N	0.05	0.2	9/21/2020	8:53 AM	TKN - NH3
Phosphorus, Ortho	0.135		mg/L as P	0.004	0.016	9/17/2020	1:06 PM	EPA 365.1
Salinity by meter by Client	4.38		SU			9/16/2020	9:55 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.65		meters			9/16/2020	9:55 AM	FDEP FT 1700
Silica, dissolved as SiO2	11		mg/L as SiO2	0.1	0.4	9/17/2020	12:55 PM	SM4500-SiO2 C
Depth of Water Body	2.6		Meters			9/16/2020	9:55 AM	FS2100
Nitrogen, Kjeldahl, Total	0.85		mg/L as N	0.05	0.2	9/21/2020	8:53 AM	EPA 351.2
Nitrogen, Total	1.2		mg/L as N	0.05	0.2	9/21/2020	8:53 AM	TKN + NOX
Total Organic Carbon	16		mg/L	1	4	9/17/2020	12:47 PM	SM 5310 B
Phosphorus, Total	0.16		mg/L as P	0.006	0.024	9/21/2020	8:54 AM	EPA 365.1
Total Suspended Solids	2.75		mg/L	0.6	2.4	9/17/2020	9:02 AM	SM 2540 D
Turbidity (Nephelometric)	2.45		NTU	0.2	0.8	9/17/2020	3:25 PM	EPA 180.1

Laboratory ID AE60602
 Location Code CRNEP_RS
 Sample Description Grid #442

Collection date and time 9/16/2020 11:55 AM
 Sample Collector REISTADT/WOLFE

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	1.53	I	mg/M3	0.5	2.0	9/17/2020	7:36 AM	SM21 10200 H
Pheophytin	0.68	I	mg/M3	0.5	2.0	9/17/2020	7:36 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	1.0	V1 I J3	mg/L	0.3	1.2	9/17/2020	11:18 AM	SM 5210 B
Color	163		CU	8.0	32.0	9/17/2020	1:33 PM	SM21 2120 C
Oxygen, Dissolved, Electrode, by Client	4.94		mg/L			9/16/2020	11:55 AM	FDEP FT1500
Enterococci	10	U	MPN/100mL	10		9/16/2020	3:14 PM	Enterolert®
E.coli Enumeration	31		MPN/100mL	10		9/16/2020	3:23 PM	Colilert-18®
Ammonia	0.037	I	mg/L as N	0.014	0.056	9/17/2020	10:53 AM	EPA 350.1
Nitrite	0.011	I	mg/L as N	0.003	0.012	9/17/2020	8:35 AM	EPA 353.2
Nitrate	0.388		mg/L as N	0.01	0.04	9/17/2020	8:35 AM	EPA 353.2

Report Format: NELAC

DOH #E45049



Laboratory ID AE60602
 Location Code CRNEP_RS
 Sample Description Grid #442

Collection date and time 9/16/2020 11:55 AM
 Sample Collector REISTADT/WOLFE

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Nitrate + Nitrite	0.399		mg/L as N	0.01	0.04	9/17/2020	8:35 AM	EPA 353.2
Nitrogen, Organic	0.92		mg/L as N	0.05	0.2	9/21/2020	8:53 AM	TKN - NH3
Phosphorus, Ortho	0.114		mg/L as P	0.004	0.016	9/17/2020	1:06 PM	EPA 365.1
Salinity by meter by Client	0.24		SU			9/16/2020	11:55 AM	FDEP FT 1300
Water Clarity Secchi Disk, by Client	0.7		meters			9/16/2020	11:55 AM	FDEP FT 1700
Silica, dissolved as SiO2	12		mg/L as SiO2	0.1	0.4	9/17/2020	12:55 PM	SM4500-SiO2 C
Depth of Water Body	2.3		Meters			9/16/2020	11:55 AM	FS2100
Nitrogen, Kjeldahl, Total	0.96		mg/L as N	0.05	0.2	9/21/2020	8:53 AM	EPA 351.2
Nitrogen, Total	1.4		mg/L as N	0.05	0.2	9/21/2020	8:53 AM	TKN + NOX
Total Organic Carbon	18		mg/L	1	4	9/17/2020	12:47 PM	SM 5310 B
Phosphorus, Total	0.15		mg/L as P	0.006	0.024	9/21/2020	8:54 AM	EPA 365.1
Total Suspended Solids	1.65	I	mg/L	0.6	2.4	9/17/2020	9:02 AM	SM 2540 D
Turbidity (Nephelometric)	2.69		NTU	0.2	0.8	9/17/2020	3:25 PM	EPA 180.1

Laboratory ID AE60604
 Location Code CRNEP_EQ
 Sample Description EB Site #449

Collection date and time 9/16/2020 12:45 PM
 Sample Collector REISTADT/WOLFE

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Chlorophyll a - corrected for Pheophytin	0.50	U	mg/M3	0.5	2.0	9/17/2020	7:36 AM	SM21 10200 H
Pheophytin	0.50	U	mg/M3	0.5	2.0	9/17/2020	7:36 AM	SM21 10200 H
Biochemical Oxygen Demand 5 day	0.4	I J3	mg/L	0.3	1.2	9/17/2020	11:18 AM	SM 5210 B
Color	1.6	U	CU	1.6	6.4	9/17/2020	1:33 PM	SM21 2120 C
Enterococci	10	U	MPN/100mL	10		9/16/2020	3:14 PM	Enterolert®
E.coli Enumeration	10	U	MPN/100mL	10		9/16/2020	3:23 PM	Colilert-18®
Ammonia	0.014	U	mg/L as N	0.014	0.056	9/17/2020	10:53 AM	EPA 350.1
Nitrite	0.003	U	mg/L as N	0.003	0.012	9/17/2020	8:35 AM	EPA 353.2
Nitrate	0.010	U	mg/L as N	0.01	0.04	9/17/2020	8:35 AM	EPA 353.2
Nitrate + Nitrite	0.010	U	mg/L as N	0.01	0.04	9/17/2020	8:35 AM	EPA 353.2
Nitrogen, Organic	0.050	U	mg/L as N	0.05	0.2	9/21/2020	8:53 AM	TKN - NH3
Phosphorus, Ortho	0.004	U	mg/L as P	0.004	0.016	9/17/2020	1:06 PM	EPA 365.1
Silica, dissolved as SiO2	0.1	U	mg/L as SiO2	0.1	0.4	9/17/2020	12:55 PM	SM4500-SiO2 C
Nitrogen, Kjeldahl, Total	0.05	U	mg/L as N	0.05	0.2	9/21/2020	8:53 AM	EPA 351.2
Nitrogen, Total	0.050	U	mg/L as N	0.05	0.2	9/21/2020	8:53 AM	TKN + NOX

Report Format: NELAC

DOH #E45049



Laboratory ID AE60604
Location Code CRNEP_EQ
Sample Description EB Site #449

Collection date and time 9/16/2020 12:45 PM
Sample Collector REISTADT/WOLFE

Analyte Name	Result	Qualifier	Units	MDL	PQL	Analysis Date	Analysis Time	Analysis Method
Total Organic Carbon	1.000	U	mg/L	1	4	9/17/2020	12:47 PM	SM 5310 B
Phosphorus, Total	0.006	U	mg/L as P	0.006	0.024	9/21/2020	8:54 AM	EPA 365.1
Total Suspended Solids	0.6	U	mg/L	0.6	2.4	9/17/2020	9:02 AM	SM 2540 D
Turbidity (Nephelometric)	0.20	U	NTU	0.2	0.8	9/17/2020	3:25 PM	EPA 180.1

Qualifiers:

I The value is less than, or equal to, the laboratory's practical quantitation limit (PQL) and greater than the minimum detection limit (MDL).

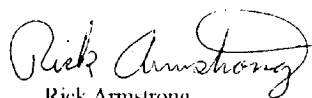
I J3 The value is < or = to the PQL and > the MDL. The reported value failed to meet the established quality control criteria for either precision or accuracy.

U Indicates that the compound was analyzed for but not detected.

V1 I J3 Analyte found in both sample & field blank @ <5X the blank value. The value is < or = to the PQL and > the MDL. Value failed to meet quality control criteria for either precision or accuracy.

Unless noted otherwise, these test results meet all the requirements of the 2016 NELAC/ TNI Standards.

The results provided herein relate only to the samples cited as they were received by the laboratory. All questions regarding this report should be directed to Rick Armstrong, Laboratory Manager.



Rick Armstrong
Lab Manager
Lee County Environmental Lab



LCEL

Lee County Environmental Laboratory
60 S Danley Dr Unit 2
Fort Myers, FL 33907
Phone: (239) 533-8600

Analysis Request & Chain of Custody Record

Lab Certification: E45049
LCEL F COC 20150828R1

LCEL does not accept any samples used for evidentiary purposes

Report/Result Information

Billing/Invoice Information

Page 1 of 1

Name: FDEP - South	Name: DNRM	Matrix Codes: DW-Drinking water GW- Ground water WW-Waste water SW-Surface water WWS-Wastewater Sludge S-Sediment O-Other	Preservative Codes: NP-No Preservative N-Nitric Acid S-Sulfuric Acid H-Hydrochloric Acid SH-Sodium Hydroxide ST-Sodium Thiosulfate O-Other
ATTN: Kirby Wolfe	RE: CCHMN-Tidal Caloosa		
Address: 2295 Victoria Ave, Suite 364 PO Box 2549 Ft Myers FL 33901	Address: 1500 Monroe St Ft Myers, FL 33901		
Phone: (239) 344-5719	Phone: (239) 533-8109		

Sample Collector(s) (please print): Nicole Reistadt/Chris Hormuth		Sample Collector Signature: 		Analyses Required \$Chloroa, _prep O-PO4, Color, NOX TOC NH3, TKN, TN, T-PO4, NO3, ONIT Turb, NO2, TSS, Silica, Bod, Bod Mug2QT, Entero					
Relinquished By: (signature) 	Date 09/16/20	Time 1459	Received By: (signature) 						
Relinquished By: (signature)	Date	Time	Received By: (signature)						
Relinquished By: (signature)	Date	Time	Received By: (signature)						

Sample(s) on ice ☒ Yes or ☐ No? Temperature °C: 0.32

Collection		Sample Description & Location	Matrix (see codes)	# of Sample Containers Submitted						Lab ID #
Date	Time									
09/16/20	1035	CRNEP_RS #417	SWE	1	1	1	1	2	1	AE60597
09/16/20	1230	CRNEP_RS #449	SWE	1	1	1	1	2	1	AE60598
09/16/20	1110	CRNEP_RS #423	SWE	1	1	1	1	2	1	AE60599
09/16/20	0955	CRNEP_RS #395	SWE	1	1	1	1	2	1	AE60600
		CRNEP_RSBOT #395 Bottom DID NOT SAMPLE	SWE	1	1	1	1	2	1	AE60601
09/16/20	1155	CRNEP_RS #442 ⁴	SWE	1	1	1	1	2	1	AE60602
		CRNEP_RSBOT #422 Bottom DID NOT SAMPLE	SWE	1	1	1	1	2	1	AE60603
09/16/20	1245	CRNEP_EQ # ^{NR} @449	SWE	1	1	1	1	2	1	AE60604

**SAMPLES SHOULD BE IN WET ICE & LESS THAN 6° C (42.8°F)
OR THEY MAYBE QUALIFIED***

*Qualified = the data may not be accurate and regulatory agencies may not accept qualified data.